

CLAIMS

1. Article comprising at least fibres  
and/or fibrils, characterized in that the fibres and  
5 fibrils are formed from a polymer blend comprising at  
least:

- a thermally stable polymer; and
- a thermoplastic polymer chosen from the group of  
polysulphides and polysulphones.

10 2. Article according to Claim 1,  
characterized in that the thermally stable polymer is  
chosen from aromatic polyamides, aromatic polyamide-  
imides, or polyimides.

3. Article according to Claim 1 or 2,  
15 characterized in that the thermoplastic polymer is  
chosen from polyether sulphone or polyphenylene  
sulphone.

4. Article according to one of the  
preceding claims, characterized in that the  
20 thermoplastic polymer and the thermally stable polymer  
are soluble in the same solvent.

5. Article according to one of the  
preceding claims, characterized in that the polymer  
blend comprises at least 10% by weight of thermoplastic  
25 polymer.

6. Article according to one of the  
preceding claims, characterized in that the fibres are

obtained by blending the thermally stable polymer with the thermoplastic polymer, and then spinning the blend.

7. Article according to Claim 6,  
characterized in that the blend is produced by  
5 dissolving the polymers in a solvent.

8. Article according to Claim 7,  
characterized in that the solvent is an aprotic polar  
solvent.

9. Article according to Claim 8,  
10 characterized in that the solvent is chosen from DMEU,  
DMAC, NMP and DMF.

10. Article according to one of Claims 6 to  
8, characterized in that the spinning is wet spinning.

11. Article according to one of Claims 6 to  
15 8, characterized in that the spinning is dry spinning.

12. Article according to one of the  
preceding claims, characterized in that the fibrids are  
obtained by blending the thermally stable polymer with  
the thermoplastic polymer, and then precipitating the  
20 blend under a shear stress.

13. Article according to one of the  
preceding claims, characterized in that it is a  
non-woven article.

14. Article according to one of the  
25 preceding claims, characterized in that it is obtained  
by "web-forming" at least the fibres and/or fibrids by  
a "drylaid" process and "consolidation" of the

structure obtained.

15. Article according to one of Claims 1 to 13, characterized in that it is obtained by "web-forming" at least the fibres and/or fibrids by a "wetlaid" process and "consolidation" of the structure obtained.

16. Article according to one of the preceding claims, characterized in that the "consolidation" is carried out by thermal pressing at a temperature greater than the glass transition temperature of the thermoplastic polymer of the fibres and/or fibrids of the invention contained in the article.

17. Fibre, characterized in that it is formed from a polymer blend comprising at least:

- a thermally stable polymer; and
- a thermoplastic polymer chosen from the group of polysulphides and polysulphones;

and in that it has a linear density of less than or equal to 13.2 dtex.

18. Fibrid, characterized in that it is formed from a polymer blend comprising at least:

- a thermally stable polymer; and
- a thermoplastic polymer chosen from the group of polysulphides and polysulphones.

19. Use of the article according to one of Claims 1 to 16 in the electrical insulation field.

Articles comprising fibres and/or fibrids, fibres and  
fibrids and process for obtaining them

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The present invention relates to novel  
articles, especially non-woven articles comprising  
fibres and/or fibrids. It also relates to novel fibres  
and fibrids and to a process for obtaining these fibres  
10 and fibrids.